

樹脂外装メタライズドポリエステルフィルムコンデンサ

Resin Coated Metallized Polyester Film Capacitors

MDX SERIES

一般電子機器用 小型化品

- ✦ 基板上の面積が小さく、機器小型化設計に適しています。
- ✦ 誘電体にメタライズドポリエステルフィルムを用いた、無誘導巻き構造
- ✦ 難燃性エポキシ樹脂外装 (UL94V-0)
- ✦ 一般電子機器用の小型軽量品

Miniature type for use in general electronics

- ✦ MDX series is well-suited for Miniaturization of equipment.
- ✦ This series has non-inductive construction of metallized polyester film.
- ✦ Flame retardant epoxy resin (UL94V-0) coating type
- ✦ Miniature size and light weight for use in general electronics

性能 Performance

項目 Item	性能 Performance
使用温度範囲 Temperature range	-40~+85°C (+105°C) +85°Cを超える時は電圧軽減必要 Derate the operating voltage if operating temperature is higher than +85°C.
定格電圧範囲 Rated Voltage (U _R)	250V _{DC} (2E)、450V _{DC} (2W)、630V _{DC} (2J)
静電容量範囲 Capacitance range	0.01~10 μF
静電容量許容差 Capacitance tolerance	±10%(K), (±5%(J))
耐電圧 Withstanding voltage	端子相互間: U _R × 1.6(V _{DC}) for 1 min Between terminals : 端子外装間: U _R × 2(V _{DC}) for 1~5sec Between terminals and enclosure :
絶縁抵抗 Insulation resistance (IR)	C ≤ 0.33 μF : ≥ 15000MΩ C > 0.33 μF : ≥ 5000Ω·F 250, 450 V _{DC} : 100 V _{DC} for 1 min 630 V _{DC} : 500 V _{DC} for 1 min
誘電正接 tan δ	≤ 0.008 (1kHz)

表示例 Marking example

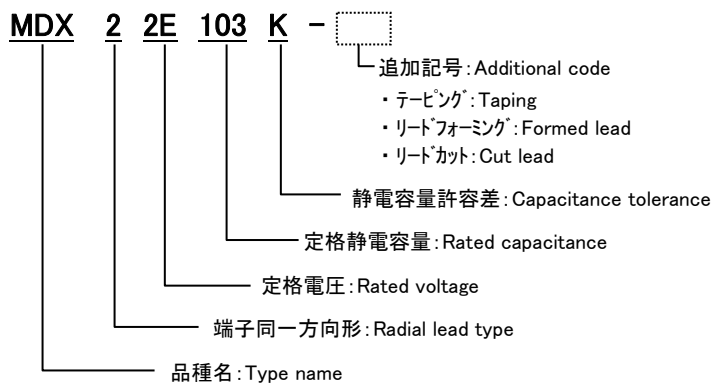
P=5.0, 7.5 P=10.0, 12.5, 17.5 P=22.5

103K □ 2E474K 2J225K □

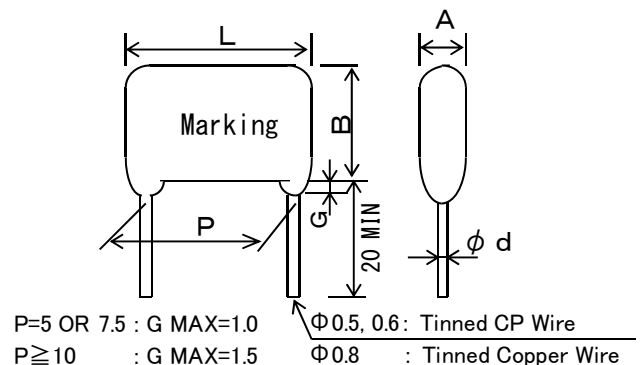
2W N □ MDX N □ MDX *Nitsuko*

□ : 管理記号 Control Code

形名の構成例 Type designation



外形図 Component outline



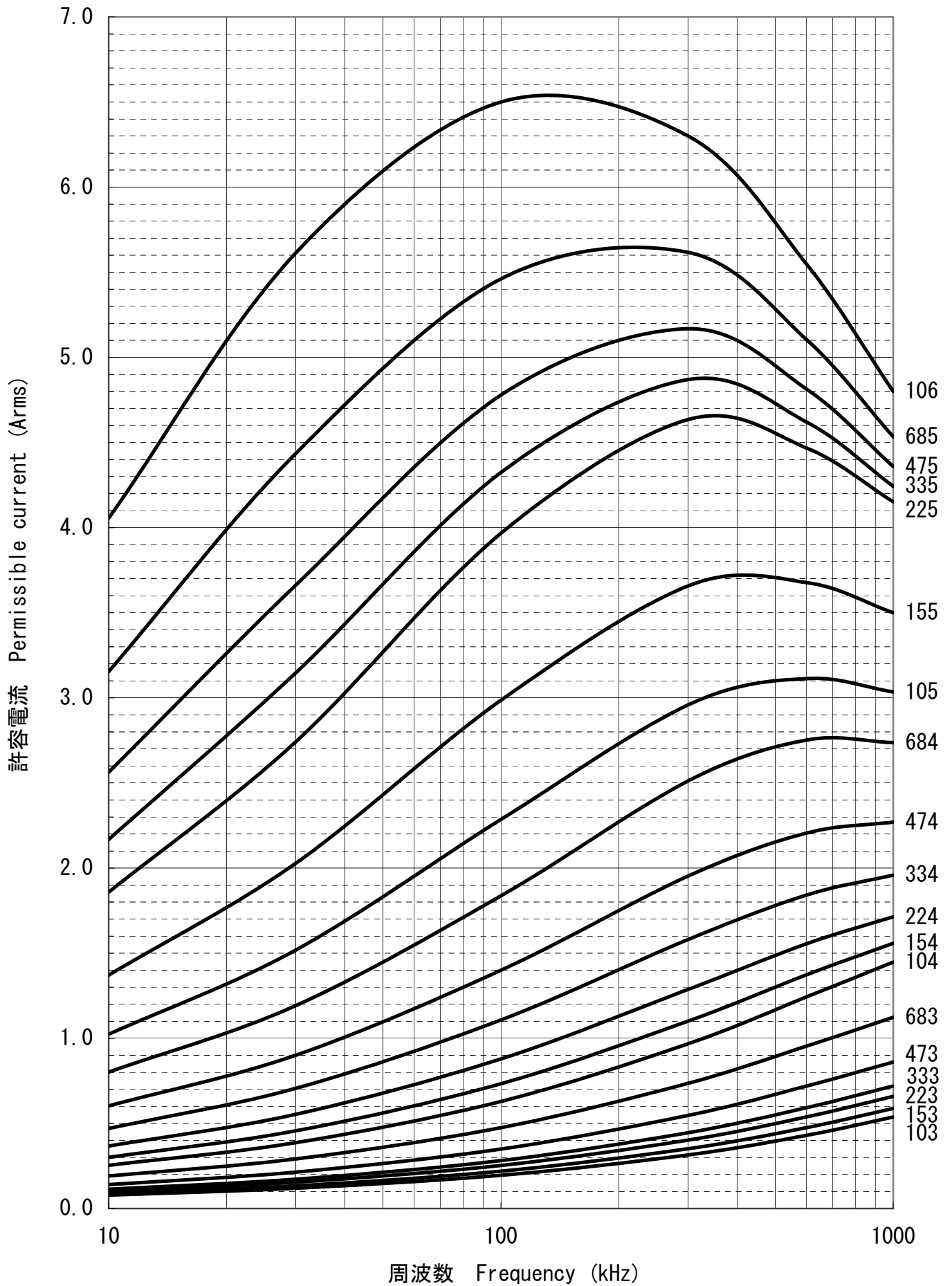
樹脂外装メタライズドポリエステルフィルムコンデンサ

Resin Coated Metallized Polyester Film Capacitors

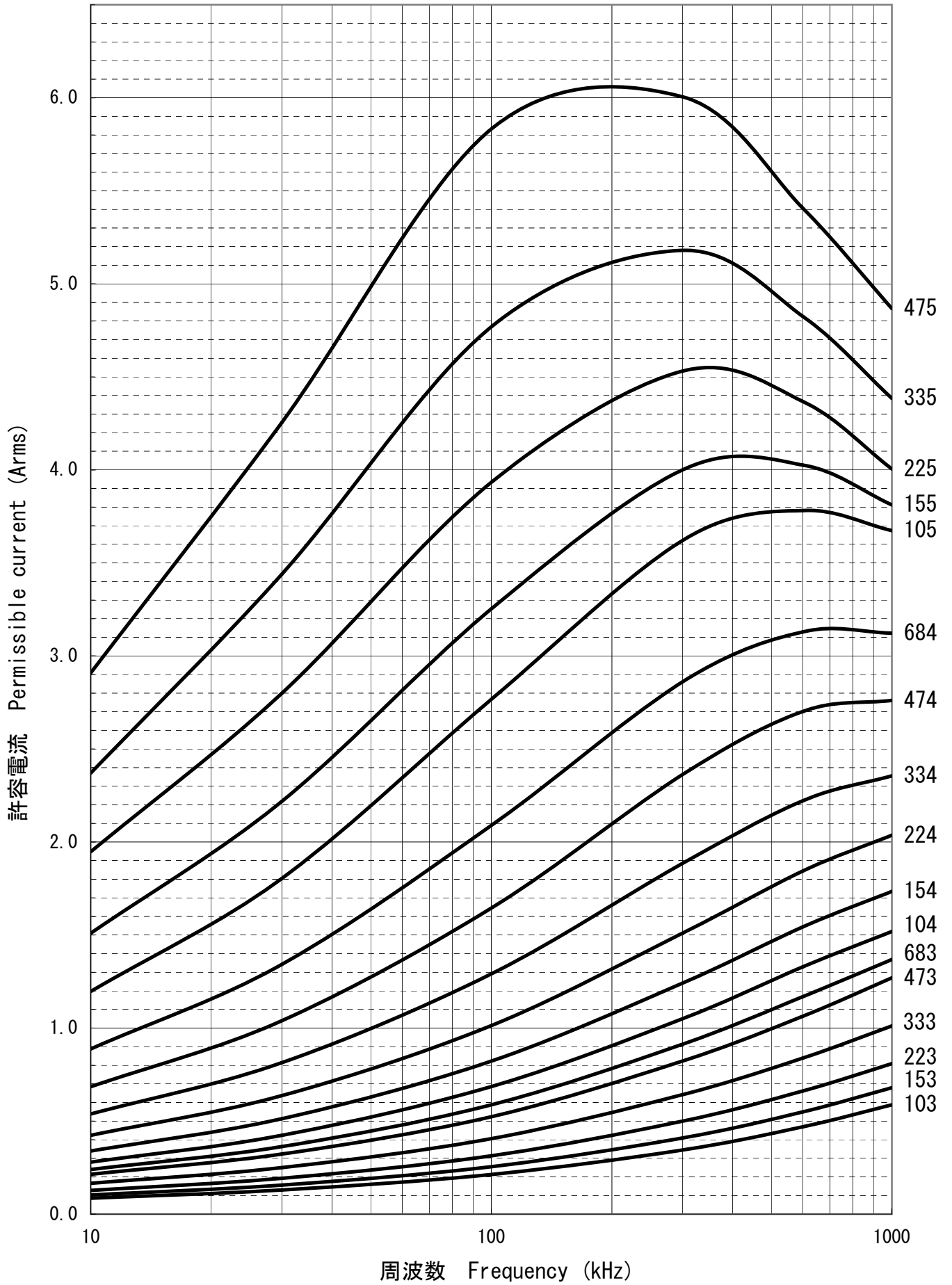
★ 定格寸法表 (MDX) Standard dimensions (mm)

Part cord	Rated voltage (V _{DC})	Capacitance (μF)	Tolerance (%)	A max	B max	L max	P ±0.75	φd	Permissible current I _{op} (A)	Taping PCS/Package
MDX22E103K	250	0.01	±10	3.7	6.5	7.3	5.0	0.5	1.2	1500
MDX22E153K	250	0.015	±10	3.7	6.5	7.3	5.0	0.5	1.6	1500
MDX22E223K	250	0.022	±10	3.7	6.5	7.3	5.0	0.5	1.9	1500
MDX22E333K	250	0.033	±10	3.7	7.0	7.3	5.0	0.5	2.4	1500
MDX22E473K	250	0.047	±10	4.4	7.4	7.3	5.0	0.5	3.5	1250
MDX22E683K	250	0.068	±10	5.0	8.2	7.3	5.0	0.5	5.0	1000
MDX22E104K	250	0.1	±10	5.8	9.5	7.3	5.0	0.5	7.4	1000
MDX22E154K	250	0.15	±10	6.4	11.5	7.3	5.0	0.5	11.1	900
MDX22E224K	250	0.22	±10	5.2	11.3	9.8	7.5	0.5	8.1	1000
MDX22E334K	250	0.33	±10	6.4	12.5	9.8	7.5	0.5	12.2	900
MDX22E474K	250	0.47	±10	5.2	14.4	12.5	10.0	0.6	10.9	600
MDX22E684K	250	0.68	±10	6.2	15.4	12.5	10.0	0.6	15.7	500
MDX22E105K	250	1.0	±10	6.2	16.0	15.0	12.5	0.6	16.6	500
MDX22E155K	250	1.5	±10	7.8	17.5	15.0	12.5	0.6	25.0	No taping
MDX22E225K	250	2.2	±10	7.5	18.4	20.3	17.5	0.8	24.8	
MDX22E335K	250	3.3	±10	9.0	21.0	20.3	17.5	0.8	37.2	
MDX22E475K	250	4.7	±10	11.4	23.0	20.3	17.5	0.8	52.9	
MDX22E685K	250	6.8	±10	11.7	23.8	25.5	22.5	0.8	55.8	
MDX22E106K	250	10.0	±10	15.2	27.4	25.5	22.5	0.8	82.0	
MDX22W103K	450	0.01	±10	3.5	6.8	9.8	7.5	0.5	1.0	
MDX22W153K	450	0.015	±10	4.0	6.8	9.8	7.5	0.5	1.5	1250
MDX22W223K	450	0.022	±10	4.0	6.8	9.8	7.5	0.5	1.3	1250
MDX22W333K	450	0.033	±10	4.2	6.8	9.8	7.5	0.5	1.5	1250
MDX22W473K	450	0.047	±10	4.2	7.2	9.8	7.5	0.5	2.2	1250
MDX22W683K	450	0.068	±10	4.4	8.3	9.8	7.5	0.5	3.2	1250
MDX22W104K	450	0.1	±10	4.5	10.8	9.8	7.5	0.5	4.7	1250
MDX22W154K	450	0.15	±10	4.6	10.7	12.5	10.0	0.6	4.4	700
MDX22W224K	450	0.22	±10	5.8	10.5	12.5	10.0	0.6	6.4	500
MDX22W334K	450	0.33	±10	5.8	14.3	12.5	10.0	0.6	9.6	500
MDX22W474K	450	0.47	±10	7.0	15.5	12.5	10.0	0.6	13.7	400
MDX22W684K	450	0.68	±10	6.5	14.8	17.8	15.0	0.8	11.3	500
MDX22W105K	450	1.0	±10	7.5	16.3	17.8	15.0	0.8	16.6	400
MDX22W155K	450	1.5	±10	7.8	16.0	25.5	22.5	0.8	15.5	No taping
MDX22W225K	450	2.2	±10	8.8	18.8	25.5	22.5	0.8	22.7	
MDX22W335K	450	3.3	±10	11.0	21.0	25.5	22.5	0.8	34.0	
MDX22W475K	450	4.7	±10	13.2	24.8	25.5	22.5	0.8	48.5	
MDX22J153K	630	0.015	±10	4.2	8.0	9.8	7.5	0.5	1.5	1250
MDX22J223K	630	0.022	±10	5.0	8.6	9.8	7.5	0.5	2.2	1250
MDX22J333K	630	0.033	±10	5.0	11.3	9.8	7.5	0.5	3.3	1000
MDX22J473K	630	0.047	±10	6.3	11.2	9.8	7.5	0.5	4.6	1000
MDX22J683K	630	0.068	±10	5.8	10.5	12.5	10.0	0.6	3.7	600
MDX22J104K	630	0.1	±10	5.8	13.8	12.5	10.0	0.6	5.5	500
MDX22J154K	630	0.15	±10	7.9	13.8	12.5	10.0	0.6	8.2	400
MDX22J224K	630	0.22	±10	9.3	16.0	12.5	10.0	0.6	12.1	300
MDX22J334K	630	0.33	±10	8.3	15.0	17.8	15.0	0.8	9.6	400
MDX22J474K	630	0.47	±10	9.3	17.6	17.8	15.0	0.8	13.6	No taping
MDX22J684K	630	0.68	±10	10.8	20.6	17.8	15.0	0.8	19.7	
MDX22J105K	630	1.0	±10	9.9	21.0	25.5	22.5	0.8	17.4	
MDX22J155K	630	1.5	±10	12.3	23.5	25.5	22.5	0.8	26.0	
MDX22J225K	630	2.2	±10	15.5	27.6	25.5	22.5	0.8	38.2	

周波数別許容実効電流値
 Permissible current vs. Frequency
 MDX 250VDC



周波数別許容実効電流値
 Permissible current vs. Frequency
 MDX 450VDC



周波数別許容実効電流値
 Permissible current vs. Frequency
 MDX 630VDC

